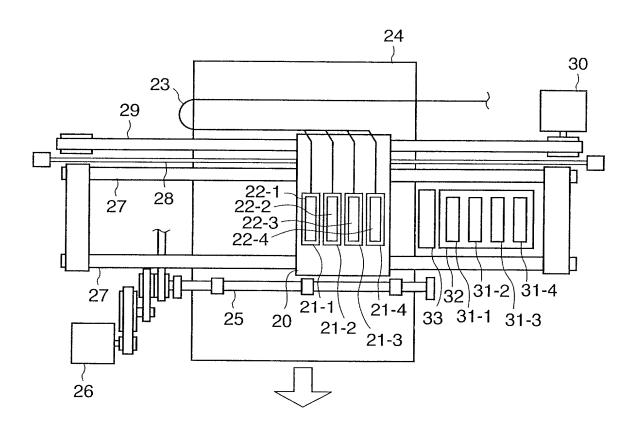


FIG. 2



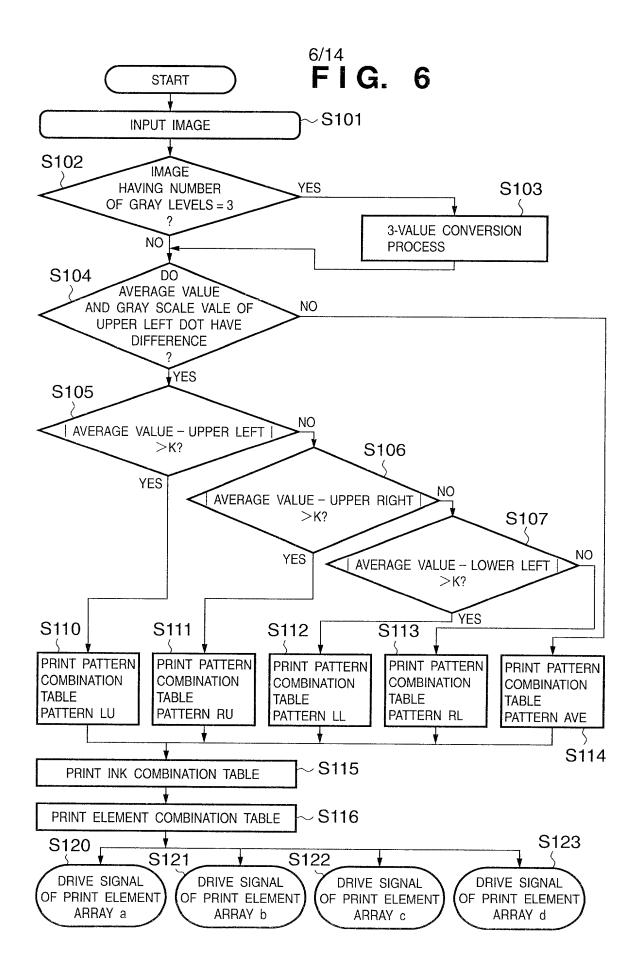
F I G. 3

,	·												L	····LE	FT	R	···RIG	THE
GRAY	DENSITY	No.	a-1-1	a-1-1	a-2-1	a-2-1	a-3-1	a-3-1	a-4-1	a-4-1	b-1-1	b-1-1	b-2-1	b-2-1	b-3-1	b-3-1	b-4-1	b-4-1
SCALE	GRADIENT INFORMATION		L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R
1	LU	1	1	0	0	0	0	0	0	<u> </u>					L	ļ <u> </u>		<u> </u>
1		2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1		3	0	0	0	0	0	0	0	0	Ö	0	0	0	0	0	0	0
1		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	RU	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1		6 7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
1		8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	LL	9	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
1		10	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
1		11	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<del>-  </del>	RL	12 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 1	0
1	111-	14	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1		15	0	0	0	0	0	0	0	0	0	0	ō	Ö	0	1	0	0
1		16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2	LU	17	4					_										
2	LU	18	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2		19	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
2		20	1	0	0	0	0	0	1	0	0	0	0	ō	0	0	0	0
2	RU	21	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
2 2		22 23	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
2		24	0	1	0	-0-	0	0	0	1	0	0	0	0	0	0	0	0
2	LL	25	0	Ö	Ö	0	0	ő	0	0	1	0	1	0	0	00	0	0
2		26	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
2		27	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
2	RL	28 29	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
2	116	30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
2		31	0	0	0	0	0	0	0	0	0	0	0	Ö	0	1	0	1
2	43.7	32	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
2	AV	33 34	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
2		35	1	0	0	0	0	0	0	0	0	0	0	1 0	0	1	0	0
2		36	1	ō	0	0	0	0	0	0	0	0	0	0	0	<del>-</del>	0	1
2		37	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
2		38	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
2	-	39 40	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
									<del>  </del>	-				-	-0		-	1
3	LU	41	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
3		42	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0
3		43 44	0	0	0	0	1 0	0	1	0	0	0	0	0	0	1	0	0
3	RU	45	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1 0
3		46	0	Ö	Ö	1	0	1	0	0	0	0	1	0	0	0	0	0
3		47	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0
3		48	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0
3 3	LL	49 50	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0
3		51	0	0	0	0	0	1	0	0	0	0	1 0	0	1	0	0	0
3		52	0	0	ő	0	0	ö	0	1	1	0	0	1	0	0	1	0
3	RL	53	1	0	0	0	0	0	0	0	0	1	0	1	0	0	Ö	0
3		54	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
3		55 56	0	0	0	0	1 0	0	0	0	0	0	0	0	0	1	0	1
3	AVE	41	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1
3		42	0	0	1	Ö	1	1	0	0	Ö	0	1 +	0	0	0	0	0
3		43	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
3		44	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0

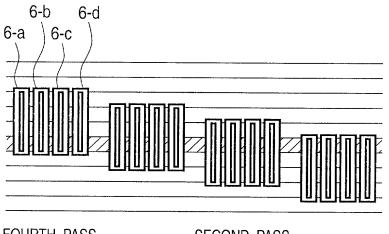
## F I G. 4

						-	•	•	-	•				L···Ll	EFT	R	····RIC	3HT
GRAY	DENSITY	No.	a-1-1	a-1-1	a-2-1	a-2-1	a-3-1	a-3-1	a-4-1	a-4-1	b-1-1	b-1-1	b-2-1	b-2-1	b-3-1	b-3-1	b-4-1	b-4-1
	GRADIENT		L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R
VALUE	INFORMATION		ļ		L			L										<u> </u>
4	LU	45	0	0	1 1	0	1	0	1	0	0	0	0	0	0	0	0	0
4		47	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
4		48	1	0	1	0	Ö	0	i	0	Ö	Ö	0	0	0	0	0	1
4	RU	49	0	1	0	_ 1	0	1	0	0	1	0	ō	0	Ö	0	0	Ö
4		50	0	0	0	1	0	1	0	. 1	0	0	1	0	0	0	0	0
4		51 52	0	1	0	0	0	1	0	1	0	0	0	0	1	0	0	0
4	LL	53	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
4		54	0	0	0	1	0	0	0	0	Ö	0	1	0	<del>   </del>	0	1	0
4		55	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	Ō
4		56	0	0	0	0	0	0	0	1	1	0	1	0	0	0	1	0
4	RL	57 58	1	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0
4		59	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
4		60	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1
4	AVE	61	1	0	Ö	1	0	0	0	0	0	1	0	0	1	0	0	0
4		62	0	0	1	0	0	1	0	0	0	0	0	1	0	0	1	0
4		63	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0
4		64	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1
5	LU	65	1	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0
5		66	0	1	1	0	1	0	1	0	0	0	0	1	0	0	0	0
5		67	1	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0
5	DI	68	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	1
5 5	RU	69 70	0	1	0	1	0	1	1	0	1	0	0	0	0	0	0	0
5		71	0	1	1	0	0	1	0	1	0	0	1 0	0	0	0	0	0
5		72	0	1	0	1	<del>1</del>	0	ŏ	0	0	0	0	0	0	0	1	0
5	LL	73	0	1	0	0	0	0	0	0	1	0	1	0	1	0	0	1
5		74	0	0	0	1	0	0	0	0	0	1	1	0	1	0	1	0
5		75 76	0	0	0	0	0	1	0	0	1	0	0	1	1	0	1	0
5	RL	77	0	0	0	0	0	0	0	1 0	0	0	0	0	0	1	1 1	0
5		78	0	0	1	Ö	0	0	0	0	1	0	0	1	0	1	0	$\frac{0}{1}$
5		79	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1
5	A1 /F	80	0	0	0	0	0	0	1	0	0	1	0	1	1	0	0	1
5	AVE	81 82	1 0	0	0	1 0	0	0	0	0	0	1	0	0	1	0	0	0
5		83	1	0	0	0	1	0	1 0	0 1	0	0	0	1 0	0	0	1 0	0
5		84	0	1	1	ő	Ö	0	1	0	0	0	Ö	0	$-\frac{0}{1}$	Ö	0	1
								1										
6	<u> </u>	85	1	0	1	0	1	0	0	1	0	1	1	0	0	0	0	0
6		86 87	0	1 0	1 0	0	1	0	1	0	0	0	0	1	1	0	0	0
6		88	1	0	1	0	0	1	1	0	1	0	0	0	0	1 0	1 0	0
6	RU	89	0	1	0	1	0	1	1	0	1	1	ő	0	0	0	0	0
6		90	0	0	0	1	0	1	0	1	0	0	1	1	0	0	0	0
6		91	0	1	1	0	0	1	0	1	0	0	0	0	1	1	0	0
6	LL	92 93	0	1 1	0	1 0	1 0	0	0	1	0	0	0	0	0	0	1	1
6	<u> </u>	94	0	0	0	1	1	0	0	0	1 0	0	1	0	1 1	0	0	1 0
6		95	0	0	0	<del>- i -  </del>	0	1	1	0	1	0	0	1	-	0	1	0
6		96	1	0	0	0	0	0	0	1	11	0	1	0	Ö	1	1	0
6	RL	97	1	1	0	0	0	0	0	0	0	1	0	1	0	1	1	0
6		98 99	0	0	$\frac{1}{0}$	1	0	0	0	0	1	0	0	1	0	1	0	1
6		100	0	0	0	0	1 0	1 0	0	0	0	$\frac{1}{1}$	1 0	0	0	1 0	0	1
6	AVE	101	1	0	0	1	1	0	0	0	0	1	0	0	+	0	0	1
6		102	0	0	1	0	0	1	1	Ö	0	1	0	1	Ö	0	1	0
6		103	1	0	0	0	1	0	0	1	1	0	_1	0	0	1	0	0
6		104	0	1	1	0	0	0	1	0	0	1	0	0	1	0	0	1

## FIG. 5



## FIG. 7



FOURTH PASS THIRD PASS SECOND PASS FIRST PASS

MOVING DIRECTION OF PRINT MEDIUM



FIG. 8

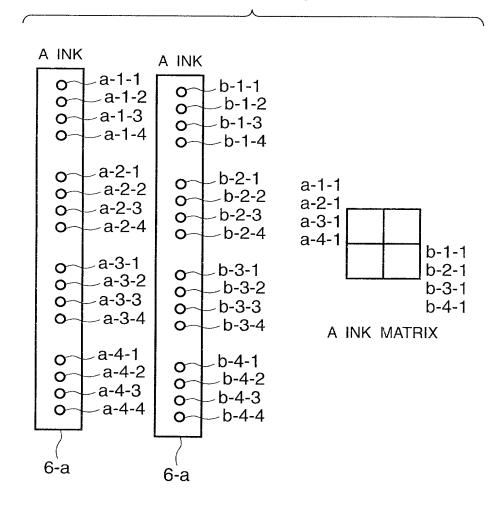


FIG. 9

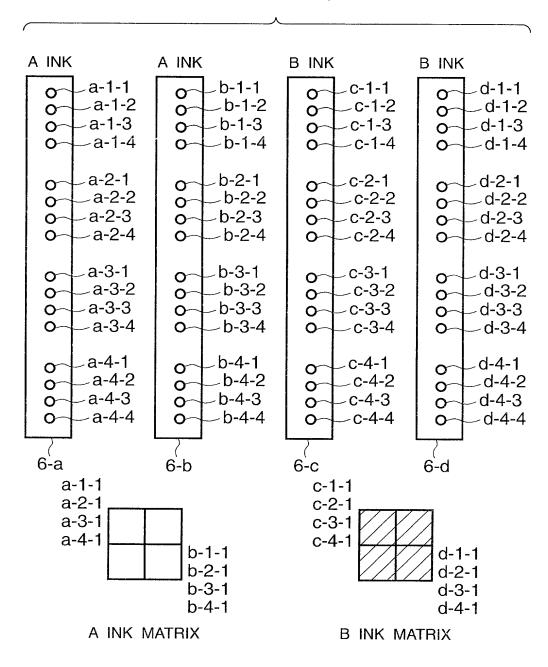


FIG. 10

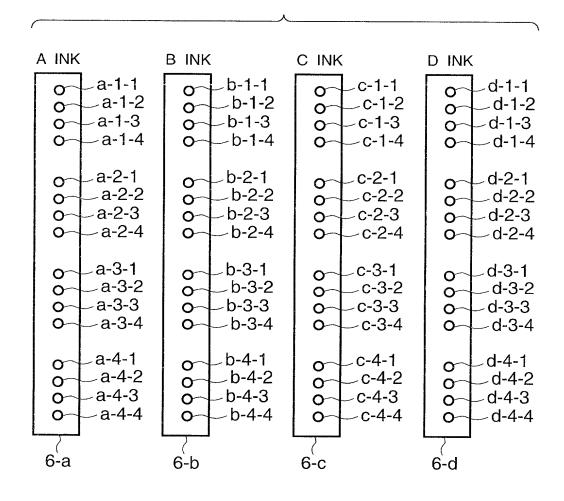
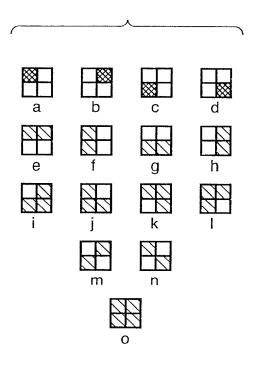


FIG. 11



12/14 **FIG. 12** 

	PATTERN 1		PATTERN 2					PATTE	ERN 3		i	
GRAY LEVEL		UPPER RIGHT	LOWER LEFT	LOWER RIGHT		UPPER RIGHT		LOWER RIGHT		UPPER RIGHT		LOWER RIGHT
0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	0	0	0	0	1	0	0	0	0	1	0
2	2	0	0	0	0	2	0	0	0	0	2	0
3	3	0	0	0	0	3	0	0	0	0	3	0
4	4	0	0	0	0	4	0	0	0	0	4	0
5	5	0	0	0	0	5	0	0	0	0	5	0
6	6	0	0	0	0	6	0	0	0	0	6	0
7	7	0	0	0	0	7	0	0	0	0	7	0
8	8	0	0	0	0	8	0	0	0	0	8	0
9	8	1	0	0	1	8	1	0	0	0	8	1
10	8	1	0	0	1	8	1	0	1	0	8	1
11	8	2	1	0	2	8	1	0	1	0	8	2
12	8	2	2	0	2	8	2	0	2	0	8	2
13	8	2	2	1	2	8	2	1	2	1	8	2
14	8	2	2	2	2	8	2	2	2	2	8	2
15	8	3	3	2	3	8	3	2	3	2	8	3
		l I	! ! !			t !	! ! !	1 1 1		! ! !	! ! !	! ! !
		1 1 1	! !			! ! !	! !	] ] ]		! !	 	! !
	PATTE	ERN 4	1			! !	! !	1 1 1	PATTI	ERN 5	! ! !	! ! !
GRAY LEVEL		UPPER RIGHT	LOWER LEFT	LOWER RIGHT		UPPER RIGHT		LOWER RIGHT		UPPER RIGHT		LOWER RIGHT
0	0	0	0	0		1 1 !	1		0	0	0	0
1	0	0	0	1		1 1	1	] 	1	0	0	0
2	0	0	0	2		] 	1 1 1	I 1 I	1	0	0	1
3	0	0	0	3		I I 1	1 1 1	 	1	1	0	1
4	0	0	0	4		1	1	 	1	1	1	1
5	0	0	0	5			1		2	1	1	1
6	0	0	. 0	6			} ! 1	1 	2	1	1	2
7	0	0	0	7			1 1 1	l 1 1	2	2	1	2
8	0	: 0	0	8			1 1 1	] 	2	2	2	2
9	0	0	1	8		]   		 	3	2	2	2
10	0	1	1	8		1	! !	,	3	2	2	3
11	0	1	2	8		i i	i !	 	3	3	2	3
12	0	2	2	8		! ! !	1 1 1	 	3	3	3	3
13	1	2	. 2	8			! 	1 1 1	4	3	3	3
14	2	2	2	8		] 	I I	I I	4	3	3	4
15	3	3	3	8		: 	! !	l I	4	4	4	4

FIG. 13

GRAY SCALE VALUE	A INK	B INK	C INK	D INK
0	0	0	0	0
1	1	0	0	0
2	2	0	0	0
2	0	1	0	0
3	3	0	0	0
3	1	1	0	0
4	4	0	0	0
4	2	1	0	0
4	0	2	0	0
4	0	0	1	0
5	3	1	0	0
. 5	1	2	0	0
5	1	0	1	0
6	2	2	0	0
6	0	3	0	0
6	2	0	1	0
6	0	1	1	0
7	1	3	0	0
7	1 ,	1	1	0
			_	
8	0	4	0	0
8	0	0	2	0
8	0	0	0	1

FIG. 14

